

California Regional Water Quality Control Board
Santa Ana Region

UPDATE TO THE

December 20, 2004

AGENDA

The following items have been excluded from the agenda for the reasons indicated below:

Item No:

- 10 **Appeal of Staff's Denial of an Exemption from the Minimum Lot Size Requirement. Cheryl Gollnick, 25381 Charina Lane, Homeland, Riverside County - APN 457-240-029.** This item has been removed from the Agenda.
- 13 **Waste Discharge Requirements for Century Crowell Communities, Tract 15548, City of Yucaipa.** This item has been postponed.
- 17 **Mandatory Penalties Complaint, Hamid Farsai, Huntington Beach ARCO, 6002 Bolsa Avenue, Huntington Beach.** This item has been postponed to the January 28, 2005 Board Meeting.
- 18 **Mandatory Penalties Complaint, Adams Steel, 3200 East Frontera Avenue, Anaheim.** The discharger waived their right to a hearing. No Board action required.
- 19 **Mandatory Penalties Complaint, Atlantic Richfield Company, Service Station at 5981 Warner Avenue, City of Huntington Beach.** The discharger waived their right to a hearing. No Board action required.
- 20 **Mandatory Penalties Complaint, Bell Industries, 1831 Ritchey Street, Santa Ana.** The discharger waived their right to a hearing. No Board action required.

California Regional Water Quality Control Board
Santa Ana Region
Staff Report
December 20, 2004

ITEM: 18

SUBJECT: Mandatory Penalties Complaint No. R8-2004-0034, Adams Steel, Anaheim, Orange County

BACKGROUND

On October 4, 2004, the Executive Officer issued Mandatory Penalties Complaint (MPC) No. R8-2004-0034 (copy attached) to Adams Steel for alleged violations of Waste Discharge Requirements, Order No. 98-4, NPDES No. CA8000277 (Permit). On October 22, 2004, the Executive Officer revised the MPC. In the MPC, the Executive Officer proposed mandatory minimum penalties of \$99,000 for the alleged violations.

INTRODUCTION

The matter before the California Regional Water Quality Control Board, Santa Ana Region (Board), is to consider adoption of Order No. R8-2004-0101, which affirms MPC No. R8-2004-0034. MPC No. R8-2004-0034 was issued by the Executive Officer to Adams Steel for violations of the effluent limits specified in the Permit, as per Water Code Section 13385(h).

DISCUSSION

Adams Steel operates a shredding and metals recovery facility in Anaheim, California. Under dry weather conditions, the cooling water (process wastewater) used in the shredding operations is stored in a large storage tank and reused. However, under heavy storm conditions, storm water commingled with process wastewater is treated and discharged to the Santa Ana River. This discharge is currently regulated under the Permit.

The Permit contains effluent limits for a number of constituents. A review of the monitoring reports from January 2000 to June 2004 indicates numerous effluent limit violations. The details of these violations are presented in a table included as Attachment 1 to the MPC. A total of 33 of these violations are considered serious violations and are subject to a mandatory minimum penalty of \$3,000 each, per Water Code Section 13385(h). Therefore, the Executive Officer issued a Mandatory Penalties Complaint for these violations in the amount of \$99,000.

Water Code Section 13385(f)(1) states that a single operational upset that leads to simultaneous violations of more than one pollutant parameter shall be treated as a single violation. A single operational upset is an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent

limitations because of factors beyond the reasonable control of the permittee. In a November 2, 2004 letter, the attorney for Adams Steel indicated that the 33 violations cited above were caused by 12 operational upsets at Adams Steel's treatment facility, and therefore, only 12 violations are subject to mandatory minimum penalties. Staff has not received any documentation to indicate that there were operational upsets at the treatment facility and has requested Adams Steel to provide evidence to substantiate its claim that these violations were caused by a series of operational upsets.

STATEWIDE ENFORCEMENT POLICY

On February 19, 2002, the State Water Resources Control Board adopted a Revised Water Quality Enforcement Policy to ensure that enforcement actions throughout the State are fair, firm and consistent. The above-described mandatory penalty complaint is in accordance with the State Enforcement Policy.

RECOMMENDATION

Board staff recommends that the Board affirm MPC No. R8-2004-0034 by adopting Order No. R8-2004-0101.

**STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION**

YOU ARE HEREBY GIVEN NOTICE THAT:

1. Adams Steel is alleged to have violated provisions of law for which the California Regional Water Quality Control Board, Santa Ana Region (hereinafter Board), must impose liability under Section 13385(h) and (i) of the California Water Code.
 2. A hearing concerning this Complaint will be held before the Board within 90 days of the date of issuance of this complaint, unless Adams Steel waives its right to a hearing. Waiver procedures are specified on Page 2, Item 9, of this complaint. If the hearing in this matter is not waived, the hearing will be held during the Board's regular meeting on November 5, 2004 at Eastern Municipal Water District, 2270 Trumble Road, Perris, California. The meeting will begin at 9:00 a.m. Adams Steel or its representatives will have an opportunity to appear and be heard and to contest the allegations in this Complaint and the imposition of mandatory penalties by the Board. An agenda for the meeting and the staff report for this item will be mailed to you not less than 10 days prior to the hearing date.
 3. If the November 5, 2004 hearing is held, the Board will consider whether to affirm, reject or modify the proposed mandatory penalties or whether to refer the matter to the Attorney General for recovery of judicial civil liability.
 4. This Complaint is based on the following facts:
 - a. Adams Steel operates a metal recycling facility in Anaheim, California. On March 6, 1998, the Board adopted Waste Discharge Requirements Order No. 98-4, NPDES No. CA 8000277, (Permit) for Adams Steel. The Permit regulates the discharge of treated storm water commingled with process wastewater associated with industrial activities from the Adams Steel facility.
 - b. Adams Steel submitted self-monitoring reports for discharges from the facility. These monitoring reports show serious and/or chronic effluent limit violations for oil and grease, pH, total petroleum hydrocarbons, hexavalent chromium, lead, and zinc. These violations are summarized on Attachment "1." A summary of reported storm water results for the Adams Steel facility during the term of the Permit is shown on Attachment "2."

5. Water Code Section 13385(h) and (i) requires the Board to assess a mandatory minimum penalty of three thousand dollars (\$3,000) for each serious or chronic violation.
6. As indicated on Attachment "1," there are 33 serious and/or chronic violations that meet the mandatory minimum penalty criteria specified in Sections 13385(h) and (i).
7. Pursuant to Section 13385(c) of the California Water Code, the Board may impose administrative civil liability for the violations cited in Attachments "1" and "2." The maximum administrative civil liability that may be imposed for these violations is \$300,000 (a total of 30 days of violations @ \$10,000 per day for each day of violation). The Board may also impose additional penalties based on the discharge volume.
8. The Executive Officer proposes that mandatory penalties of \$99,000 be imposed on Adams Steel by the Board for the violations cited in Item 6, above.
9. You may waive your right to a hearing. If you waive your right to a hearing, please sign the attached waiver form and mail it, together with a check or money order payable to the State Water Resources Control Board, for the amount of mandatory penalties, as specified on the waiver. These documents should be mailed to Sacramento in the enclosed envelope.

If you have any questions, please contact Mark Smythe at (951) 782-4998, or Patrice Copeland (951) 321-4576. For legal questions, contact the Regional Board's legal counsel, Jorge Leon at (916) 341-5180.

10/22/04

Date

Ktv. Bltl

for Gerard J. Thibeault
Executive Officer

STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

In the matter of:) Order No. R8-2004-0101
) for
Adams Steel) Mandatory Minimum Penalties
3200 E. Frontera Street)
Anaheim, CA 92806)
Attention: Mr. George Adams)

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Board), held a hearing on December 20, 2004 to receive testimony and take evidence on the allegations contained in Mandatory Penalties Complaint (MPC) No. R8-2004-0034 dated October 4, 2004, and amended on October 22, 2004, and on the recommendation for the imposition of mandatory penalties pursuant to Water Code Section 13385 in the amount of \$99,000. The Board finds as follows:

1. On March 6, 1998, the Board adopted Waste Discharge Requirements, Order No. 98-4, NPDES No. CA8000277 (Permit), for Adams Steel, Anaheim, Orange County. The Permit expired on March 1, 2003 and it was administratively extended. Adams Steel conducts metal shredding and recovery operations at its facility, located at 3200 E. Frontera Street in the City of Anaheim. The Permit regulates the discharge of treated process wastewater commingled with storm water and contains effluent limits for a number of constituents. The monitoring data submitted by Adams Steel indicate a number of effluent limit violations. These are tabulated on Attachment 1 of the attached MPC which shows that there were 33 serious violations from January 2000 to June 2004. Section 13385(h)(1) of the Water Code requires that a mandatory penalty of \$3,000 be assessed for each serious violation. The total mandatory penalties for these violations are \$99,000.
2. On October 4, 2004, the Executive Officer issued MPC No. R8-2004-0034 to Adams Steel. On October 22, 2004, the Executive Officer revised the MPC. The MPC proposed that the Board impose mandatory penalties in the amount of \$99,000 on Adams Steel, for the violations cited above.
3. Issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21100 et seq.) in accordance with Section 15321, Chapter 3, Title 14, California Code of Regulations.

IT IS HEREBY ORDERED that, pursuant to California Water Code Section 13385, mandatory penalties shall be imposed on Adams Steel in the amount of \$99,000 as proposed in Complaint No. R8-2004-0034 for the violations cited, payable as set forth below.

1. Adams Steel shall pay a total of \$57,000 into a Supplemental Environmental Project that is acceptable to the Executive Officer.
2. Adams Steel shall pay the remaining amount of the assessment, a total of \$42,000, to the State Water Resources Control Board.
3. The Executive Officer is authorized to refer this matter to the Attorney General for enforcement.

Pursuant to Water Code Section 13320, you may petition the State Water Resources Control Board for review of this Order. If you choose to do so, you must submit the petition to the State Board within 30 days of the Regional Board's adoption of this Order.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on December 20, 2004.

Gerard J. Thibeault
Executive Officer

#18

Attachment 1
MPC R8-2004-0034
Adams Steel, Anaheim, Orange County
Summary of MPC Violations

Constituent (Pollutant Group Identification)	Effluent Limit	Calculated TRC Limit	MPC Serious <u>Violations</u> Concentration (Date of Violation)	MPC Chronic <u>Violations</u> Concentration (Date of Violation)	Total Violations Subject to MPC
Oil and Grease (Group I)	15 mg/L (30-day average)	21 mg/L	28.5 mg/L (4/18/00)	None	1
pH (Other Pollutant)	6.5 to 8.5 pH units	NA	None	9.50 (1/26/01) 8.87 (2/25/01) 8.62 (2/27/01)	3
Total Petroleum Hydrocarbons (Group II)	100 µg/L (30-day average)	120 µg/L	5,500 µg/L (1/12/01) 9,368 µg/L (11/9/02-11/10/02) 7,266 µg/L (12/17/02-12/20/02) 3,799 µg/L (2/12/03-2/26/03) 4,821 µg/L (3/15/03-3/17/03) 4,959 µg/L (2/23/04-2/27/04)		6
Hexavalent Chromium (Group II)	11 µg/L (4-day average)	13.2 µg/L	20 µg/L (2/25/01-2/27/01)	None	1
Lead (Group II)	12 µg/L (4-day average)	14.4 µg/L (4-day average)	28 µg/L (3/5/00) 18 µg/L (4/18/00) 18 µg/L (1/10/01-1/12/01) 20 µg/L (2/25/01-2/27/01) 38 µg/L (11/9/02-11/10/02) 29 µg/L (12/17/02-12/20/02) 36 µg/L (2/12/03-2/13/03) 32 µg/L (2/25/03-2/26/03) 25 µg/L (3/15/03-3/17/03) 31 µg/L (2/23/04-2/27/04)	None	10
Lead (Group II)	315 µg/L (1-hour average)	378 µg/L (1-hour average)	None	None	0
Zinc (Group II)	260 µg/L (4-day average)	312 µg/L (4-day average)	390 µg/L (3/5/00) 420 µg/L (2/12/01-2/14/01) 820 µg/L (2/25/01-2/27/01) 403 µg/L (11/9/02-11/10/02) 413 µg/L (12/17/02-12/20/02) 336 µg/L (2/12/03-2/13/03) 332 µg/L (2/25/03-2/26/03)	None	7
Zinc (Group II)	288 µg/L (1-hour average)	345.6 µg/L (1-hour average)	350 µg/L (1/25/01) 420 µg/L (2/12/01) 980 µg/L (2/25/01) 389 µg/L (12/17/02) 359 µg/L (2/25/03)	None	5
Total Violations:					33

**Attachment 1
MPC R8-2004-0034
Adams Steel, Anaheim, Orange County
Summary of MPC Violations**

GRAND TOTAL OF PENALTIES:

33 violations x \$3,000 per violation = \$99,000

Adams Steel may be allowed to contribute \$57,000 of these penalty funds into a qualified SEP, per the California Water Code, Section 13385 (l)(1-3).

ADAMS STEEL - Board Order No. 984, NPDES No. CA-8000277
Summary of Detected Constituents in Storm Water Samples

Analyte	Units	PQL	Discharge Specifications	97-98 GRAB	97-98 COMP	97-98 Outflow	97-98 -	97-98 COMP	97-98 GRAB	97-98 COMP	97-98 GRAB	97-98 COMP
Asbestos	MFL	NE	NE	NS	175	NS	NS	NS	92	76	153	NS
BOD	mg O/L	NE	NE	ND<0.02	NS	ND<0.02	NS	NS	NS	NS	NS	NS
Cyanide, Total	mg/L	0.05	NE	15 (30-day ave)	11	8.6	7.8	8.8	6.9	6.8	8.1	11
Oil & Grease	mg/L	NE	6.5 - 8.5	6.41	6.42	7.37	1410	7.85	7.35	7.30	7.90	8.09
pH	pH units	NE	NE	1780	1770	720	1080	1060	765	683	1200	955
TDS	mg/L	NE	100 (30-day ave)	NS								
TPH-Gasoline (C4-C10)	µg/L	NE	100 (30-day ave)	NS								
TPH-Diesel (C-10-C22)	µg/L	NE	0.1 (30-day ave)	ND<1.0								
TRPH	mg/L	NE	75 (30-day ave)	19	16	5.3	30	9.7	14	10.0	16	18
TSS				ND<100	NS	ND<100	NS	NS	NS	NS	NS	NS
Antimony	µg/L	NE	NE	2.1	NS							
Arsenic	µg/L	7.5	NE	NS								
Barium	µg/L	20.0	NE	ND<10	NS	ND<10	NS	NS	NS	NS	NS	NS
Beryllium	µg/L	NE	NE	ND<10 ⁽¹⁾								
Cadmium	µg/L	2.0	3(4-day)/13(1-hr)	NS								
Chromium, Total	µg/L	NE	NE	ND<10	ND<10	ND<10	ND<10 ⁽²⁾	ND<10	ND<10	ND<10	ND<10	ND<10
Chromium VI	µg/L	15.0	11 (4-day ave)	NS								
Cobalt	µg/L	10.0	NE	NS								
Copper	µg/L	20.0	29(4-day)/48(1-hr)	24	16	ND<10	12	14	15	NS	NS	16
Iron	µg/L	NE	NE	NS	43							
Lead	µg/L	10.0	12(4-day)/315(1-hr)	29	31	18	32	44	37	36	NS	NS
Manganese	µg/L	NE	NE	ND<0.2	NS	ND<0.2	NS	NS	NS	NS	NS	NS
Mercury	µg/L	0.5	NE	NS								
Molybdenum	µg/L	NE	NE	ND<50								
Nickel	µg/L	50.0	387(4-day)/3481(1-hr)	NS	NS	ND<2	NS	NS	NS	NS	NS	NS
Selenium	µg/L	10.0	NE	ND<2	ND<10							
Silver	µg/L	10.0	35 (Inst. Max)	NS	ND<1	NS	ND<1	NS	NS	NS	NS	NS
Thallium	µg/L	NE	NE	NS								
Vanadium	µg/L	NE	NE	466	496	252	201	178	182	147	394	357
Zinc	µg/L	20.0	260(4-day)/288(1-hr)	ND<2 ⁽¹⁾	ND<0.2	ND<4 ⁽¹⁾	ND<0.2	ND<0.2	ND<1.0	ND<1.0	ND<1.0	ND<1.0
PCBs, Total	µg/L	1.0	0.014 (daily ave)	NS								
Acetone	µg/L	NE	3,500,000 (30-day ave)	1.2	1.3	0.77	4.0	ND<0.05	0.71	0.56	1.8	1.7
Benzene	µg/L	1.0	21 (30-day ave)	NE	NE	590	NS	ND<100	NS	NS	NS	NS
Benzoic acid	µg/L	NE	NE	NE	NE	26	NS	ND<20	NS	NS	NS	NS
Benzyl alcohol	µg/L	NE	NE	NE	NE	ND<0.05	NS	ND<0.1	NS	NS	NS	NS
beta-BHC	µg/L	NE	NE	ND<0.05	NS	ND<0.05	NS	ND<0.1	NS	NS	NS	NS
gamma-BHC	µg/L	NE	NE	ND<0.05	NS	ND<0.05	NS	ND<0.05	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	µg/L	NE	0.031 (30-day ave)	ND	30	NS	NS	ND<50	NS	NS	NS	NS
2-Butanone (MEK)	µg/L	NE	NE	ND<0.05	NS	ND<0.05	NS	ND<2	NS	ND<0.05	ND<0.05	ND<0.5
n-Butylbenzene	µg/L	NE	NE	ND<0.05	NS	ND<0.05	NS	ND<2	NS	ND<0.05	ND<0.05	ND<0.5
tert-Butylbenzene	µg/L	NE	NE	ND<0.5								
Carbon disulfide	µg/L	5.0	470 (30-day ave)	ND<30 ⁽¹⁾	ND<10							
Chloroform	µg/L	10.0	NE	NE	NE	NE	NE	NE	NE	NE	NE	ND<100 ⁽¹⁾
4-Chloro-3-methylphenol												ND<100 ⁽¹⁾

ADAMS STEEL - Board Order No. 98-4, NPDES No. CA-8000277
Summary of Detected Constituents in Storm Water Samples

Analyte	Units	PQL	Discharge Specifications	11/30/97	11/30/97	12/7/97	1/10/98	2/3/98	2/22/98	2/22/98	2/25/98	2/25/98
4,4'-DDT	µg/L	0.10	NE	ND<0.05	NS	NS	ND<0.1	NS	NS	NS	NS	NS
Dichlorofluoromethane	µg/L	NE	5 (30-day ave)	NS	1.1	1.0	6.6	4.4	0.51	0.65	ND<0.5	ND<0.5
Dichlorodifluoromethane	µg/L	NE	NE	ND<10	NS	ND<20	NS	NS	NS	NS	NS	8.9
Diethyl phthalate	µg/L	NE	NE	ND<0.05	NS	ND<0.1	NS	NS	NS	NS	NS	NS
Endosulfan II	µg/L	0.50	NE	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethylbenzene	µg/L	5.0	680 (30-day ave)	4.6	4.4	2.2	9.7	1.1	1.9	1.5	1.1	10
Isopropylbenzene	µg/L	NE	NE	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	ND<0.5
p-Isopropyltoluene	µg/L	NE	NE	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Methyl tertiary butyl ether (MTBE)	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene Chloride	µg/L	5.0	40 (30-day ave)	1.1	1.1	2.8	ND<5	ND<1	ND<1	ND<1	ND<1	ND<1
2-Methylnaphthalene	µg/L	NE	NE	ND<10	ND<10	ND<20	ND<10	ND<10	ND<40	ND<40	ND<20	ND<40
2-Methylphenol	µg/L	NE	NE	ND<10	ND<10	ND<20	ND<10	ND<10	ND<40	ND<40	ND<20	ND<40
4-Methylphenol	µg/L	NE	NE	29	28	ND<20	ND<10	26	ND<40	ND<40	ND<20	ND<40
Naphthalene	µg/L	5.0	5,000 (30-day ave)	4.9	4.9	2.0	14	4.3	3.0	2.4	1.1	1.1
Phenol	µg/L	10.0	300 (30-day ave)	55	51	ND>20 ⁽¹⁾	24	4.9	4.9	4.5	4.4	4.1
n-Propylbenzene	µg/L	5.0	NE	1.0	1.0	ND<0.5	2.3	ND<0.5	0.57	ND<0.5	2.8	2.6
Styrene	µg/L	5.0	NE	ND<0.5	ND<0.5	1.1	ND<2	ND<0.5	0.99	0.77	ND<0.5	ND<0.5
Tetrachloroethene (PCE)	µg/L	NE	NE	0.80	0.71	6.6	ND<2	ND<0.5	0.89	ND<0.5	ND<0.5	ND<0.5
Tetrahydrofuran (THF)	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	µg/L	1.0	300 (30-day ave)	17	17	12	42	4.0	6.1	4.9	3.5	3.2
1,1,1-Trichloroethane	µg/L	5.0	200 (30-day ave)	ND<0.5	ND<0.5	0.58	ND<2	ND<0.5	2.0	1.1	ND<0.5	ND<0.5
Trichloroethene (TCE)	µg/L	NE	NE	ND<0.5	ND<0.5	0.52	ND<2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Trichlorofluoromethane	µg/L	5.0	NE	3.4	3.2	13	15	3.2	3.7	2.2	1.7	2.2
1,2,4-Trimethylbenzene	µg/L	5.0	NE	11	11	4.3	25	2.6	5.7	4.9	2.5	2.4
1,3,5-Trimethylbenzene	µg/L	5.0	NE	3.0	3.1	1.6	7.2	1.0	1.7	1.7	8.6	7.6
Xylenes, Total	µg/L	NE	1750 (30-day ave)	32	31	12	61	6.8	1.1	9.4	7.1	6.4
Toxicity Testing	% survival	NE	>70	100	NS	NS	NS	NS	NS	NS	NS	NS

BOLD font indicates parameter exceeds permit discharge specifications.

(1) Exceeds permit PQL.

(2) Results are estimated due to holding time being exceeded.

MFL - Million fibers per liter.

mg O/L - Milligrams oxygen per liter.

ND - Not detected.

NE - Not established.

NS - Not sampled.

µg/L - Micrograms per liter.

ADAMS STEEL - Board Order No. 98-4, NPDES No. CA-8000277
Summary of Detected Constituents in Storm Water Samples

Analyte	Units	PQL	Discharge Specifications	97-98 GRAB	97-98 COMP	98-99 Dry Year	99-00 GRAB	99-00 COMP 2/20/00	99-00 GRAB 2/22/00	99-00 COMP 3/5/00	99-00 GRAB 8 a.m. - 5 p.m.	99-00 COMP 4/18/00	99-00 GRAB 10 a.m. - 6 p.m.
				5/6/98	5/6/98	7 a.m.	NS	NS	NS	NS	NS	NS	NS
Asbestos	MFL	NE	NE	NS	NS	NS	NS	ND<0.02	NS	ND<0.02	NS	ND<0.02	NS
BOD	mg O/L	NE	NE	130	NS	NS	122	NS	130	NS	189	NS	NS
Cyanide, Total Oil & Grease	mg/L	0.05	NE	NS	NS	13	13	11	17	16	31	26	NS
pH	pH units	NE	6.5 - 8.5	9.75	9.92	7.31	7.43	8.75	8.66	8.70	8.70	8.35	NS
TDS	mg/L	NE	15 (30-day ave)	1300	1280	1260	1260	1120	1090	1090	1090	1790	NS
TPH-Gasoline (C4-C10)	µg/L	NE	100 (30-day ave)	NS	NS	NS							
TPH-Diesel (C-10-C22)	µg/L	NE	100 (30-day ave)	NS	NS	NS							
TRPH	mg/L	NE	0.1 (30-day ave)	ND<1.0	9.3	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
TSS	mg/L	NE	75 (30-day ave)	21	21	13	11	7.0	11	7.0	11	8.5	6.8
Antimony	µg/L	NE	NE	NS	NS	NS	NS	ND<100	NS	ND<100	NS	ND<100	NS
Arsenic	µg/L	7.5	NE	NS	NS	NS	NS	2.6	NS	2.2	NS	ND<2	NS
Barium	µg/L	20.0	NE	NS	NS	NS							
Beryllium	µg/L	NE	NE	NS	NS	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	NS	ND<10	NS	ND<10 ⁽¹⁾	NS
Cadmium	µg/L	2.0	3(4-day)/13(1-hr)	NS	NS	NS	NS	NS	NS	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾
Chromium, Total	µg/L	NE	NE	ND<10 ⁽²⁾	ND<10 ⁽²⁾	ND<10 ⁽²⁾	ND<10 ⁽²⁾	ND<2 ⁽²⁾	NS	NS	NS	ND<2 ⁽²⁾	ND<2 ⁽²⁾
Chromium VI	µg/L	15.0	11 (4-day ave)	NE	NS	NS	NS	NS	NS	ND<10	ND<10	ND<10	ND<10
Cobalt	µg/L	10.0	29(4-day)/48(1-hr)	12	13	NS	NS	NS	NS	NS	NS	NS	NS
Copper	µg/L	20.0	NE	NS	10	NS							
Iron	µg/L	NE	12(4-day)/315(1-hr)	28	25	5.5	5.0	20	28	28	17	18	NS
Lead	µg/L	10.0	NE	NS	NS	ND<10							
Manganese	µg/L	0.5	NE	NS	NS	NS	NS	ND<0.2	NS	ND<0.2	NS	ND<0.2	NS
Mercury	µg/L	NE	NE	NS	NS	NS							
Molybdenum	µg/L	50.0	387(4-day)/3481(1-hr)	ND<50	ND<50	NS	NS	20	ND<10	NS	20	30	30
Nickel	µg/L	NE	NE	NS	NS	NS	NS	2.0	NS	ND<2	NS	ND<2	NS
Selenium	µg/L	10.0	35 (Inst. Max)	ND<10	ND<10	NS	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
Silver	µg/L	10.0	NE	NS	NS	NS	NS	ND<1	NS	ND<1	NS	ND<4	NS
Thallium	µg/L	NE	NE	NS	NS	NS							
Vanadium	µg/L	NE	NE	NS	NS	NS	NS	110	95	340	390	290	250
Zinc	µg/L	20.0	260(4-day)/288(1-hr)	268	272	ND<0.2	ND<0.2	ND<2 ⁽¹⁾	ND<1	ND<1	ND<1	ND<3 ⁽¹⁾	ND<3 ⁽¹⁾
PCBs, Total	µg/L	1.0	0.014 (daily ave)	NS	NS	NS	NS	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾
Acetone	µg/L	NE	3,500,000 (30-day ave)	5.3	4.8	NS	NS	ND<20 ⁽¹⁾	1	0.80	0.80	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾
Benzene	µg/L	1.0	21 (30-day ave)	NE	NS	NS	NS	260	280	360	320	ND<10	ND<1000
Benzoic acid	µg/L	NE	NE	NS	NS	NS	NS	ND<0.06	ND<0.06	ND<0.06	ND<0.06	ND<0.06	ND<0.06
Benzyl alcohol	µg/L	NE	NE	NS	NS	NS	NS	ND<0.06	ND<0.06	ND<0.06	ND<0.06	ND<0.06	ND<0.06
beta-BHC	µg/L	NE	NE	NS	NS	NS	NS	ND<30	ND<30	ND<30	ND<30	ND<5	ND<300
gamma-BHC	µg/L	NE	NE	NS	NS	NS							
Bis(2-ethylhexyl)phthalate	µg/L	NE	0.031 (30-day ave)	NS	NS	ND<3	ND<3	ND<30	ND<20	ND<20	ND<5	ND<20	ND<20
2-Butanone (MEK)	µg/L	NE	NE	NS	NS	ND<3	ND<3	ND<20	ND<20	ND<20	ND<5	ND<20	ND<20
n-Butylbenzene	µg/L	NE	NE	NS	NS	ND<3	ND<3	ND<20	ND<20	ND<20	ND<5	ND<20	ND<20
tert-Butylbenzene	µg/L	NE	NE	NS	NS	ND<3	ND<3	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<5	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾
Carbon disulfide	µg/L	5.0	470 (30-day ave)	NE	NE	ND<3	ND<3	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<5	ND<5	ND<5
Chloroform	µg/L	10.0	NE	26	24	ND<2 ⁽¹⁾	ND<5	ND<5	ND<5				
4-Chloro-3-methylphenol	µg/L							120	120	120	55	55	230

Analyte	Units	PQL	Discharge Specifications	5/6/98	97-98 GRAB	97-98 COMP	98-99 Dry	99-00 Year	99-00 GRAB	99-00 COMP	99-00 GRAB	99-00 COMP	99-00 GRAB	99-00 COMP	
4,4'-DDT	µg/L	0.10	NE	NS	NS	NS	NS	ND<0.06	ND<0.06	ND<0.03	ND<0.03	0.26	0.30	NS	
Dichlorodifluoromethane	µg/L	NE	5 (30-day ave)	NS	NS	NS	ND<20	ND<20	2.7	3.1	ND<20	ND<20	ND<20	ND<20	
Dichlorodifluoromethane	µg/L	NE	NE	22	25	ND<10	ND<10	10	28	ND<10	ND<2	ND<2	ND<100	ND<100	
Diethyl phthalate	µg/L	NE	NE	NS	NS	NS	ND<0.06	ND<0.06	ND<0.03	ND<0.03	1.9	2.3	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	
Endosulfan II	µg/L	0.50	NE	NE	NS	NS	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	4.0	3.5	ND<0.5	ND<0.5	ND<20	ND<20	
Ethylbenzene	µg/L	5.0	680 (30-day ave)	23	23	ND<3	ND<20	ND<20	ND<0.5	ND<0.5	ND<0.5	ND<20	ND<20	ND<20	
Isopropylbenzene	µg/L	NE	NE	ND<3	ND<3	ND<3	ND<20	ND<20	ND<0.5	ND<0.5	ND<20	ND<20	ND<20	ND<20	
p-Isopropyltoluene	µg/L	NE	NE	NS	NS	NS	ND<20	ND<20	22	15	58	76	ND<30 ⁽¹⁾	ND<30 ⁽¹⁾	
Methyl tertiary butyl ether (MTBE)	µg/L	NE	40 (30-day ave)	ND-5	ND-5	ND<5	ND<30 ⁽¹⁾	ND<30 ⁽¹⁾	ND<1	ND<1	ND<10	ND<10	ND<10	ND<10	
Methylene Chloride	µg/L	NE	NE	NS	NS	NS	ND<100	ND<100	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	
2-Methylnaphthalene	µg/L	NE	NE	17	17	ND<10	ND<10	ND<10	ND<20	ND<20	ND<10	ND<10	ND<100	ND<100	
2-Methylphenol	µg/L	NE	NE	48	49	ND<20	ND<20	15	17	ND<20	ND<10	ND<2	ND<2	ND<100	ND<100
4-Methylphenol	µg/L	NE	NE	20	19	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	57	63	4.4	2.2	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<30 ⁽¹⁾	ND<30 ⁽¹⁾
Naphthalene	µg/L	5.0	5,000 (30-day ave)	79	79	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	57	60	2.2	2.2	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾
Phenol	µg/L	10.0	300 (30-day ave)	5.0	5.4	ND<3	ND<3	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<0.5	ND<0.5	ND<20	ND<20	ND<20	ND<20
n-Propylbenzene	µg/L	5.0	NE	NE	ND<3	ND<3	ND<20	ND<20	11	11	ND<0.5	ND<0.5	ND<20	ND<20	
Styrene	µg/L	5.0	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene (PCE)	µg/L	NE	NE	NS	NS	NS	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	9.3	8.3	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	
Tetrahydrofuran (THF)	µg/L	1.0	300 (30-day ave)	71	71	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<0.5	ND<0.5	ND<20	ND<20	ND<20	ND<20
Toluene	µg/L	5.0	200 (30-day ave)	4.4	4.1	ND<3	ND<20	ND<20	ND<20	ND<0.5	ND<0.5	ND<20	ND<20	ND<20	ND<20
1,1,1-Trichloroethane	µg/L	NE	NE	54	54	ND<3	ND<20	ND<20	ND<20	9.4	8.9	ND<20	ND<20	ND<20	ND<20
Trichloroethene (TCE)	µg/L	NE	NE	44	48	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	5.2	4.0	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾
Trichlorofluoromethane	µg/L	5.0	NE	15	17	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20	ND<30	1.5	0.98	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾
1,2,4-Trimethylbenzene	µg/L	5.0	1750 (30-day ave)	140	150	ND<30	ND<30	ND<30	ND<30	21	19	ND<30	ND<30	ND<30	ND<30
Xylenes, Total	µg/L	NE	>70	NS	NS	NS	NS	NS	100	NS	NS	NS	NS	NS	NS
Toxicity Testing	% survival	NE													

BOLD font indicates parameter exceeds permit discharge specifications.

(1) Exceeds permit PQL.

(2) Results are estimated due to holding time being exceeded.
MFL - Million fibers per liter greater than 10 microns in length.

mg O/L - Milligrams oxygen per liter.

ND - Not detected.

ND< - Not detected at less than PQL listed.

NE - Not established.

NS - Not sampled.

µg/L - Micrograms per liter.

ADAMS STEEL - Board Order No. 98-4, NPDES No. CA-8000277
 Summary of Detected Constituents in Storm Water Samples

Analyte	Units	PQL	Discharge Specifications	00-01	00-01	00-01	00-01	00-01	00-01	00-01	00-01	00-01
				GRAB	COMP	GRAB	COMP	GRAB	COMP	GRAB	COMP	GRAB
BOD	mg O/L	NE	NE	1/10/01	1/10/01	1/25/01	1/25/01	2/12/01	2/14/01	2/25/01	2/27/01	Dry Year
Cyanide, Total Oil & Grease	mg/L	0.05	NE	ND<0.02	ND<0.02	18	16	25	18	267	201	510
pH	pH units	NE	15 (30-day ave) 6.5 - 8.5	NE	9.03	10.02	8.87	9.50	17	14	NS	NS
TDS	mg/L	NE	NE	1160	1310	2820	2180	1300	1280	7.72	7.68	8.62
TPH-Gasoline (C4-C10)	µg/L	NE	100 (30-day ave)	NS	NS	NS	NS	NS	NS	3500	3300	NS
TPH-Diesel (C-10-C22)	µg/L	NE	100 (30-day ave)	NS	NS	NS	NS	NS	NS	NS	NS	NS
TRPH	mg/L	NE	0.1 (30-day ave)	ND<6	5.5	ND<6	ND<5	ND<5	ND<5	ND<5	ND<5	ND<2
TSS	mg/L	NE	75 (30-day ave)	15	10	14	8.0	17	22	6.0	8.0	8.0
Antimony	µg/L	NE	NE	ND<100	ND<100	5	5	NS	NS	NS	NS	NS
Arsenic	µg/L	7.5	NE	ND<100 ⁽¹⁾	ND<100 ⁽¹⁾	ND<10	ND<10	NS	NS	NS	NS	NS
Barium	µg/L	20.0	NE	NE	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	NS	NS	NS	NS	NS
Beryllium	µg/L	NE	NE	3(4-day)/13(1-hr)	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	NS	NS	NS	NS	NS
Cadmium	µg/L	2.0	NE	NE	NS	NS	NS	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾
Chromium, Total Chromium VI	µg/L	NE	11 (4-day ave)	11	ND<2	5.7 ⁽²⁾	ND<2 ⁽²⁾	ND<2 ⁽²⁾	ND<2 ⁽²⁾	ND<2 ⁽²⁾	ND<2 ⁽²⁾	ND<2 ⁽²⁾
Cobalt	µg/L	15.0	NE	ND<50 ⁽¹⁾	ND<50 ⁽¹⁾	10	ND<10	ND<10	10	ND<10	ND<10	ND<10
Copper	µg/L	10.0	NE	29(4-day)/48(1-hr)	10	NS	NS	NS	NS	NS	NS	NS
Iron	µg/L	20.0	NE	12(4-day)/315(1-hr)	20	18	15	14	15	ND<10	ND<10	ND<10
Lead	µg/L	10.0	NE	NE	ND<0.2	ND<0.2	NS	NS	NS	NS	NS	NS
Manganese	µg/L	0.5	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	µg/L	0.5	NE	NE	ND<0.2	ND<0.2	NS	NS	NS	NS	NS	NS
Molybdenum	µg/L	NE	387(4-day)/3481(1-hr)	79	80	NS	NS	NS	NS	NS	NS	NS
Nickel	µg/L	50.0	NE	ND<2	ND<2	30	30	57	50	20	20	98
Selenium	µg/L	10.0	NE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	NS	NS	NS
Silver	µg/L	10.0	NE	35 (Inst. Max)	ND<4	ND<4	NS	NS	NS	ND<10	ND<10	ND<10
Thallium	µg/L	NE	NE	ND<10	ND<10	ND<10	ND<10	NS	NS	NS	NS	NS
Vanadium	µg/L	NE	260(4-day)/28(1-hr)	210	120	350	270	350	420	420	980	820
Zinc	µg/L	20.0	NE	0.014 (daily ave)	ND<4 ⁽¹⁾	ND<4 ⁽¹⁾	ND<0.2	ND<0.2	ND<3 ⁽¹⁾	ND<3 ⁽¹⁾	ND<0.3	ND<0.2
PCBs, Total	µg/L	1.0	3,500,000 (30-day ave)	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	µg/L	NE	21 (30-day ave)	1.3	1.1	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	1.0	1.1	1.3	1.3	1.3
Benzene	µg/L	1.0	NE	460	570	2200	1500	610	560	ND<100	ND<100	ND<100
Benzoic acid	µg/L	NE	NE	210	240	360	230	44	42	460	510	510
Benzyl alcohol	µg/L	NE	NE	1.7	1.9	ND>0.005	ND>0.005	ND<20	ND<20	ND<20	ND<20	ND<20
beta-BHC	µg/L	NE	NE	0.56	0.12	ND>0.005	ND>0.005	ND<50	ND<50	ND<50	ND<50	ND<50
gamma-BHC	µg/L	NE	0.031 (30-day ave)	ND<50	ND<50	NS	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	µg/L	NE	NE	ND<1	ND<0.5	ND<20	ND<20	3.0	3.0	ND<0.5	ND<0.5	ND<0.5
2-Butanone (MEK)	µg/L	NE	NE	1.4	ND<0.5	ND<20	ND<20	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
n-Butylbenzene	µg/L	NE	NE	ND<1	ND<0.5	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
tert-Butylbenzene	µg/L	NE	NE	ND<0.5	ND<0.5	ND<600 ⁽¹⁾	ND<600 ⁽¹⁾	180	280	58	ND<50 ⁽¹⁾	ND<50 ⁽¹⁾
Carbon disulfide	µg/L	5.0	470 (30-day ave)	NE	ND<1	ND<0.5	ND<20 ⁽¹⁾	ND<600 ⁽¹⁾	ND<600 ⁽¹⁾	ND<0.5	ND<0.5	ND<0.5
Chloroform	µg/L	10.0	NE	280	280	280	280	280	280	280	280	280
4-Chloro-3-methylphenol	µg/L											

Summary of Detected Constituents in Storm Water Samples

Analyte	Units	PQL	Discharge Specifications	0/10/01 11 p.m.	0/01 2/12/01 3 p.m.	0/01 1/12/01 9 a.m.	0/01 1/25/01 3 p.m.	0/01 1/26/01 4 a.m.	0/01 2/12/01 4 a.m.	0/01 2/14/01 4 a.m.	0/01 2/25/01 12 p.m.	0/01 2/25/01 9 p.m.	01-02 Dry Year
4,4'-DDT	µg/L	0.10	NE	ND<0.01	ND<0.01	ND<0.005	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾				
Dichlorodifluoromethane	µg/L	NE	5 (30-day ave)	NS	NS	NS	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20 ⁽¹⁾
Diethyl phthalate	µg/L	NE	NE	ND<20	ND<20	ND<200	ND<200	ND<200	ND<20	ND<20	ND<20	ND<20	ND<20 ⁽¹⁾
Endosulfan II	µg/L	0.50	NE	ND<0.01	ND<0.01	ND<0.005	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾				
Ethylbenzene	µg/L	5.0	680 (30-day ave)	3.8	3.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Isopropylbenzene	µg/L	NE	NE	ND<1	ND<1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
p-Isopropyltoluene	µg/L	NE	NE	ND<1	ND<1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Methyl tertiary butyl ether (MTBE)	µg/L	NE	NE	27	27	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20
Methylene Chloride	µg/L	5.0	40 (30-day ave)	ND<2	ND<1	ND<30 ⁽¹⁾	ND<30 ⁽¹⁾	ND<30 ⁽¹⁾	ND<1	ND<1	ND<1	ND<1	ND<1
2-Methylnaphthalene	µg/L	NE	NE	ND<20	ND<20	ND<20	ND<200	ND<200	ND<200	ND<20	ND<20	ND<20	ND<20
2-Methylphenol	µg/L	NE	NE	ND<20	ND<20	ND<300	ND<300	ND<300	ND<20	ND<20	ND<20	ND<20	ND<20
4-Methylphenol	µg/L	NE	NE	25	27	ND<300	ND<300	ND<300	ND<20	ND<20	ND<20	ND<20	ND<20
Naphthalene	µg/L	5,000 (30-day ave)	3.3	2.4	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾						
Phenol	µg/L	10.0	300 (30-day ave)	62	61	ND<300 ⁽¹⁾	ND<300 ⁽¹⁾	ND<300 ⁽¹⁾	ND<20	ND<20	ND<20	ND<20	ND<20
n-Propylbenzene	µg/L	5.0	NE	1.5	0.94	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾					
Styrene	µg/L	5.0	NE	1.5	0.90	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾					
Tetrachloroethene (PCE)	µg/L	NE	NE	11	7.7	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20
Tetrahydrofuran (THF)	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	µg/L	1.0	300 (30-day ave)	18	15	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾					
1,1,1-Trichloroethane	µg/L	5.0	200 (30-day ave)	1.4	1.1	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾					
Trichloroethene (TCE)	µg/L	NE	NE	1.2	1.4	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20
Trichlorofluoromethane	µg/L	NE	NE	31	18	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾					
1,2,4-Trimethylbenzene	µg/L	5.0	NE	13	8.3	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾					
1,3,5-Trimethylbenzene	µg/L	5.0	NE	16	2.8	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<30	ND<30	ND<30	ND<30	ND<30
Xylenes, Total	µg/L	NE	1750 (30-day ave)	13	19	ND	ND	ND	ND	ND	ND	ND	ND
Toxicity Testing		% survival	NE	>70	NS	100	NS	NS	NS	NS	NS	NS	NS

BOLD font indicates parameter exceeds permit discharge specifications.

(1) Exceeds permit PQL.

(2) Results are estimated due to holding time being exceeded.

mg O/L - Milligrams oxygen per liter.

ND - Not detected.

NE - Not established.

NS - Not sampled.

µg/L - Micrograms per liter.

ADAMS STEEL - Board Order No. 98-4, NPDES No. CA-8000277
Summary of Detected Constituents in Storm Water Samples

Analyte	Units	PQL	Discharge Specifications	02-03	02-03	02-03	02-03	02-03	02-03	02-03	02-03	02-03
				GRAB 11/9/02 2 a.m.	COMP 11/10/02 4 a.m.	GRAB 12/17/02 9 a.m.	COMP 12/20/02 9 p.m.	GRAB 2/12/03 3 a.m.	COMP 2/13/03 5 p.m.	GRAB 2/25/03 11:30 p.m.	COMP 2/26/03 8:30 p.m.	GRAB 3/15/03 9 a.m.
Asbestos	MF/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
BOD	mg O/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Total Oil & Grease	mg/L	0.05	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
pH	pH units	6.5 - 8.5	15 (30-day ave)	9	13	11	10	5	12	7	6	4
TDS	mg/L	NE	NE	8.00	8.26	8.67	NS	8.04	7.44	7.84	7.56	8.86
TPH-Gasoline (C4-C10)	µg/L	NE	100 (30-day ave)	277	508	804	328	692	452	725	578	512
TPH-Diesel (C-10-C22)	µg/L	NE	100 (30-day ave)	7150	10800	6790	2660	4180	2910	3000	5000	3710
TRPH	µg/L	NE	0.1 (30-day ave)	NS	NS	NS	NS	NS	NS	NS	NS	NS
TSS	mg/L	NE	75 (30-day ave)	13	12	18	25	17	28	19	7	ND<1
Antimony	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	µg/L	7.5	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	µg/L	20.0	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	µg/L	2.0	3(4-day)/13(1-hr)	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	NS	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾
Chromium, Total	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium VI	µg/L	15.0	11 (4-day ave)	ND<20 ^(1.2)	ND<20 ^(1.2)	ND<20 ^(1.2)	NS	ND<20 ^(1.2)	ND<20 ^(1.2)	ND<20 ^(1.2)	ND<20 ^(1.2)	ND<20 ^(1.2)
Cobalt	µg/L	10.0	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	µg/L	20.0	29(4-day)/48(1-hr)	26	23	25	23	25	23	26	36	34
Iron	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	µg/L	10.0	12(4-day)/315(1-hr)	41	38	29	29	26	36	46	32	11
Manganese	µg/L	0.5	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Molybdenum	µg/L	50.0	387(4-day)/3481(1-hr)	80	87	89	86	57	77	66	64	ND<50
Nickel	µg/L	10.0	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	µg/L	10.0	35 (Inst. Max)	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	NS	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾
Silver	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	µg/L	20.0	260(4-day)/288(1-hr)	300	403	389	413	208	336	359	332	54
Zinc	µg/L	1.0	0.014 (daily ave)	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00	ND<1.00
PCBs, Total												
Acetone	µg/L	NE	3,500,000 (30-day ave)	580	946	1230	1620	953	1560	840	320	110
Benzene	µg/L	1.0	21 (30-day ave)	ND<1	ND<1	4.63	1.86	3.98	2.84	4.92	ND<1	8.64
Benzoic acid	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzyl alcohol	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
beta-BHC	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
gamma-BHC	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	µg/L	NE	0.031 (30-day ave)	NS	NS	NS	NS	NS	NS	103	56.0	ND<10
2-Butanone (MEK)	µg/L	NE	NE	ND<1	ND<1	81.6	NS	59.4	NS	ND<1	ND<1	ND<1
n-Butylbenzene	µg/L	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	ND<1
tert-Butylbenzene	µg/L	NE	NE	ND<1	ND<1	6330	NS	7250	NS	6090	4740	NS
Carbon disulfide	µg/L	5.0	470 (30-day ave)	ND<1	ND<1	ND<10	ND<10	ND<1	ND<1	ND<1	ND<1	ND<10
Chloroform	µg/L	10.0	NE	NS	NS	NS	NS	NS	NS	NS	ND<10	ND<10
4-Chloro-3-methylphenol												

Analyte	Units	PQL	Discharge Specifications	02-03	02-03	02-03	02-03	02-03	02-03	02-03	02-03
				GRAB	COMP	GRAB	COMP	GRAB	COMP	GRAB	COMP
4,4'-DDT	µg/L	0.10	NE	NS							
Dichlorofluoromethane	µg/L	NE	5 (30-day ave)	11.1	9.80	9.01	2.86	5.46	2.58	9.82	2.00
Dichlorodifluoromethane	µg/L	NE	NE	NS	3.20						
Diethyl phthalate	µg/L	NE	NE	NS	2.32						
Endosulfan II	µg/L	0.50	NE	NS							
Ethylbenzene	µg/L	5.0	680 (30-day ave)	3.50	3.62	8.81	3.51	10.5	5.44	9.92	2.06
Isopropylbenzene	µg/L	NE	NE	NS	ND<1	NS	ND<1	NS	ND<1	NS	ND<1
p-Isopropyltoluene	µg/L	NE	NE	NS	1.34	NS	ND<1	NS	ND<1	NS	ND<1
Methyl tertiary butyl ether (MTBE)	µg/L	NE	NE	NS	63.3	NS	72.7	NS	142	NS	30.4
Methylene Chloride	µg/L	5.0	40 (30-day ave)	ND<5							
2-Methylnaphthalene	µg/L	NE	NE	NS							
2-Methylphenol	µg/L	NE	NE	ND<10							
4-Methylphenol	µg/L	NE	NE	ND<10							
Naphthalene	µg/L	5.0	5,000 (30-day ave)	7.21	3.96	6.66	4.84	ND<1	ND<1	ND<1	ND<1
Phenol	µg/L	10.0	300 (30-day ave)	ND<10							
n-Propylbenzene	µg/L	5.0	NE	4.78	ND<1	2.26	1.05	ND<1	ND<1	ND<1	ND<1
Styrene	µg/L	5.0	NE	ND<1							
Tetrachloroethylene (PCE)	µg/L	NE	NE	NS	ND<1	NS	ND<1	NS	ND<1	NS	ND<1
Tetrahydrofuran (THF)	µg/L	NE	NE	NS	35.3	NS	ND<10	NS	25.9	NS	ND<10
Toluene	µg/L	1.0	300 (30-day ave)	14.1	31.2	34.3	11.9	63.9	34.5	65.6	16.9
1,1,1-Trichloroethane	µg/L	5.0	200 (30-day ave)	ND<1							
Trichloroethene (TCE)	µg/L	NE	NE	NS	2.38	NS	ND<1	NS	ND<1	NS	ND<1
Trichlorofluoromethane	µg/L	NE	NE	NS	21.0	NS	2.86	NS	7.30	NS	3.62
1,2,4-Trimethylbenzene	µg/L	5.0	NE	10.4	9.82	22.7	9.40	17.6	10.3	9.88	ND<1
1,3,5-Trimethylbenzene	µg/L	5.0	NE	2.10	1.65	5.46	2.67	4.28	2.46	1.22	ND<1
Xylenes, Total	µg/L	NE	1750 (30-day ave)	16.8	22.4	53.4	20.7	75.4	40.9	67.0	16.66
Toxicity Testing	% survival	NE	>70	65	65	NS	NS	NS	NS	NS	NS

BOLD font indicates parameter exceeds permit discharge specifications.

(1) Exceeds permit PQL.

(2) Results are estimated due to holding time being exceeded.
MFL - Million fibers per liter greater than 10 microns in length.

mg O/L - Milligrams oxygen per liter.
ND - Not detected.

ND< - Not detected at less than PQL listed.
NE - Not established.

NS - Not sampled.
µg/L - Micrograms per liter.

Analyte	Units	PQL	Discharge Specifications	03-04		03-04		03-04		03-04	
				GRAB 2/23/04	12 a.m.	GRAB 2/23/04	12 a.m.	GRAB 2/25/04	5 p.m.	GRAB 2/27/04	12 a.m.
Asbestos	MFL	NE	NE	ND<0.53	ND<0.53	NS	NS	NS	NS	NS	NS
BOD	mg O ₂ /L	NE	NE	NS	ND<0.01	NS	NS	NS	NS	NS	NS
Cyanide, Total	mg/L	0.05	NE	ND<0.01	7	6	4	3	3	NS	NS
Oil & Grease	mg/L	NE	15 (30-day ave)	8.35	8.80	8.69	8.64	NS	NS	NS	NS
pH	pH units	NE	6.5 - 8.5	NE	NS						
TDS	mg/L	NE	100 (30-day ave)	272	171	152	891	NS	NS	NS	NS
TPH-Gasoline (C4-C10)	µg/L	NE	100 (30-day ave)	6730	6080	2980	2560	NS	NS	NS	NS
TPH-Diesel (C-10-C22)	µg/L	NE	0.1 (30-day ave)	NS	NS	NS	NS	NS	NS	NS	NS
TRPH	mg/L	NE	75 (30-day ave)	10	9	ND<1	14	ND<1	14	ND<1	14
TSS	mg/L	NE	NE	ND>20	ND<20	NS	NS	NS	NS	NS	NS
Antimony	µg/L	7.5	NE	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	NS	NS	NS	NS	NS	NS
Arsenic	µg/L	20.0	NE	NS	ND<10	NS	NS	NS	NS	NS	NS
Barium	µg/L	NE	NE	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾
Beryllium	µg/L	2.0	3(4-day)/13(1-hr)	46	36	36	36	NS	NS	NS	NS
Cadmium	µg/L	NE	NE	ND<0.2	0.29	0.36	0.36	NS	NS	NS	NS
Chromium, Total	µg/L	15.0	11 (4-day ave)	NS	NS	NS	NS	ND<20	ND<20	ND<20	ND<20
Chromium VI	µg/L	NE	NE	ND>20	ND>20	NS	NS	NS	NS	NS	NS
Cobalt	µg/L	10.0	29(4-day)/48(1-hr)	580	841	841	841	NS	NS	NS	NS
Copper	µg/L	20.0	NE	ND<20	ND<20	ND<20	ND<20	NS	NS	NS	NS
Iron	µg/L	NE	NE	31	42	42	42	25	25	20	20
Lead	µg/L	10.0	12(4-day)/315(1-hr)	NE	42	38	38	NS	NS	NS	NS
Manganese	µg/L	NE	NE	ND<0.5	ND<0.5	NS	NS	NS	NS	NS	NS
Mercury	µg/L	0.5	NE	NS	NS	NS	NS	NS	NS	NS	NS
Molybdenum	µg/L	NE	NE	387(4-day)/3481(1-hr)	62	52	52	ND<50	ND<50	ND<50	ND<50
Nickel	µg/L	50.0	NE	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	NS	NS	NS	NS
Selenium	µg/L	10.0	35 (Inst. Max)	NE	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾	NS	NS	ND<20 ⁽¹⁾	ND<20 ⁽¹⁾
Silver	µg/L	10.0	NE	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	µg/L	NE	NE	206	189	189	189	102	104	104	104
Vanadium	µg/L	NE	260(4-day)/288(1-hr)	NE	ND<1.00						
Zinc	µg/L	20.0	0.014 (daily ave)	NE	NS	NS	NS	101	101	101	101
PCBs, Total	µg/L	1.0	3,500,000 (30-day ave)	NE	ND<1	ND<1	ND<1	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾
Acetone	µg/L	NE	21 (30-day ave)	NE	ND<10	ND<10	ND<10	NS	NS	NS	NS
Benzene	µg/L	1.0	NE	NE	21.4	17.1	17.1	NS	NS	NS	NS
Benzoic acid	µg/L	NE	NE	NE	ND<0.100	ND<0.100	ND<0.100	NS	NS	NS	NS
Benzyl alcohol	µg/L	NE	NE	NE	ND<0.100	ND<0.100	ND<0.100	NS	NS	NS	NS
beta-BHC	µg/L	NE	NE	NE	ND<0.100	ND<0.100	ND<0.100	ND<20	ND<20	ND<20	ND<20
gamma-BHC	µg/L	NE	NE	0.031 (30-day ave)	NE	NS	NS	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate	µg/L	NE	NE	NE	NS						
2-Butanone (MEK)	µg/L	NE	NE	NE	NS						
n-Butylbenzene	µg/L	NE	NE	NE	NS						
tert-Butylbenzene	µg/L	NE	NE	NE	NS						
Carbon disulfide	µg/L	NE	NE	NE	NS						
Chloroform	µg/L	5.0	470 (30-day ave)	NE	ND<1	ND<1	ND<1	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾
4-Chloro-3-methylphenol	µg/L	10.0	NE	20.9	19.0	19.0	19.0	ND<10	ND<10	ND<10	ND<10

Analyte	Units	PQL	Discharge Specifications	03-04	03-04	03-04	03-04
				2/23/04	GRAB	COMP	GRAB
4,4'-DDT	µg/L	0.10	NE	ND<0.100	ND<0.100	NS	NS
Dichlorofluoromethane	µg/L	NE	5 (30-day ave)	NS	NS	NS	NS
Dichlorodifluoromethane	µg/L	NE	NE	NS	ND<10	ND<10	13.9
Diethyl phthalate	µg/L	NE	NE	ND<10	ND<10	NS	NS
Endosulfan II	µg/L	0.50	NE	ND<0.100	ND<0.100	NS	NS
Ethylbenzene	µg/L	5.0	680 (30-day ave)	3.47	1.76	ND<10 ⁽¹⁾	15.5
Isopropylbenzene	µg/L	NE	NE	NS	NS	NS	ND<10
p-Isopropyltoluene	µg/L	NE	NE	NS	NS	NS	ND<10
Methyl tertiary butyl ether (MTBE)	µg/L	NE	NE	NS	NS	NS	72.0
Methylene Chloride	µg/L	5.0	40 (30-day ave)	ND<5	ND<5	ND<50 ⁽¹⁾	ND<50 ⁽¹⁾
2-Methylnaphthalene	µg/L	NE	NE	ND<10	ND<10	NS	NS
2-Methylphenol	µg/L	NE	NE	ND<10	ND<10	ND<10	ND<10
4-Methylphenol	µg/L	NE	NE	ND<10	ND<10	ND<10	ND<10
Naphthalene	µg/L	5.0	5,000 (30-day ave)	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾
Phenol	µg/L	10.0	300 (30-day ave)	ND<10	ND<10	ND<10	ND<10
n-Propylbenzene	µg/L	5.0	NE	NS	NS	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾
Styrene	µg/L	5.0	NE	NS	NS	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾
Tetrachloroethene (PCE)	µg/L	NE	NE	3.68	3.12	NS	12.8
Tetrahydrofuran (THF)	µg/L	NE	NE	NS	NS	ND<100	ND<100
Toluene	µg/L	1.0	300 (30-day ave)	9.00	4.44	ND<10 ⁽¹⁾	64.2
1,1,1-Trichloroethane	µg/L	5.0	200 (30-day ave)	ND<1	ND<1	ND<10 ⁽¹⁾	ND<10 ⁽¹⁾
Trichloroethene (TCE)	µg/L	NE	NE	ND<1	ND<1	NS	ND<10
Trichlorofluoromethane	µg/L	NE	NE	NS	NS	NS	54.5
1,2,4-Trimethylbenzene	µg/L	5.0	NE	NS	NS	ND<10 ⁽¹⁾	23.3
1,3,5-Trimethylbenzene	µg/L	5.0	NE	NS	NS	ND<10 ⁽¹⁾	ND<30
Xylenes, Total	µg/L	NE	1750 (30-day ave)	22.6	11.8	96.3	96.3
Toxicity Testing	% survival	NE	>70	75	10	NS	NS

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